

CURICULUM VITAE

Dr Olgica Stefanović

Education

- 1994 - 1998, High-school diploma
Grammar school "Vuk Karadžić", Trstenik, Serbia
- 1998 – 2004, Master (Diploma) in Biology
Faculty of Science, University of Kragujevac, Kragujevac, Serbia
- 2006 – 2012, PhD in Biology
Faculty of Science, University of Kragujevac, Kragujevac, Serbia; PhD thesis: "Effects of plant extracts on growth of selected bacterial species and their synergistic interaction with antibiotics *in vitro*"

Positions Held

1. 02. 2005 – 1. 04. 2008
Scholarship holder of the Ministry of Science and Education, Republic of Serbia
- 10.04.2008 - 9.04.2014
Teaching Assistant in Microbiology, Faculty of Science, Kragujevac, Serbia
10. 04. 2014 - 17. 05. 2022
Assistant Professor in Microbiology, Faculty of Science, Kragujevac, Serbia
- since May 18, 2022
Associate Professor in Microbiology, Faculty of Science, Kragujevac, Serbia

Professional training

01. 08. 2008 - 01. 09. 2008
at the Institute Curie, Paris, France (FP7-REGPOT-2007-3 Grant agreement 206809, project *Centre for Pre- Clinical Testing of Active Substances*), supervisor dr Danijela Vignjevic
03. 11. 2008 - 03. 12. 2008.
at the University of Nice "Sophia Antipolis", France (Tempus Curriculum Development Project H.E.R.B.S., JEP_40094_2005)

Ongoing courses

Undergraduate (bachelor's) level

General microbiology
Biology of prokaryote
Basis of biotechnology

Graduated (master's) level

Experimental methods in biology
Microbiology of soil and water
Biologically active compounds

PhD studies

Selected chapters in microbiology
Methods of microbiological research
Biochemistry and physiology of microorganisms
Interactions among organisms in ecosystems

Scientific projects

1. Characterization and application of fungal metabolites and evaluation of potency of new biofungicide, Project number OI173032, Supervisor Prof. Jelena Vukojević
2. Preclinical testing of bioactive substances, Project number III41010, Supervisor Prof. Snežana Marković

Research area

Keywords: antimicrobial testing; new antimicrobial compounds; mode of action; synergistic interaction; bacterial biofilms, pathogenic bacteria; food-borne bacteria; antibiotic resistance

Testing of antimicrobial activity of natural and synthesized compounds in relation to human pathogenic and food-borne bacteria. Evaluation of potential mechanisms of antimicrobial activity. Synergistic interaction. Bacterial biofilms.

The results of scientific research are published in four chapters, 56 scientific papers and 30 scientific conferences.

Publication

Chapter in book

1. **Stefanović O.** (2020) Antibacterial and Antifungal Activity of Secondary Metabolites of *Teucrium* Species. Chapter 12. In: Stanković M (ed) *Teucrium* Species: Biology and Applications (2020) Springer pp. 319-354, ISBN 978-3-030-52159-2
2. **Stefanović O.** (2018) Synergistic Activity of Antibiotics and Bioactive Plant Extracts: a Study Against Gram-positive and Gram-negative Bacteria. In: *Bacterial Pathogenesis and Antibacterial Control*. InTech – Open Access Publisher, p. 23-48, ISBN 978-1-78923-160-1

3. **Stefanović O**, Radojević I, Vasić S, Čomić Lj. (2012) Antibacterial activity of naturally occurring compounds from selected plants, Chapter 1. In: Varaprasad Bobbarala (ed) Antibacterial Agents. InTech – Open Access Publisher, p. 1-24, ISBN 979-953-307-281-3

4. Radojević I, Glodović V, Radić G, Vujić J, **Stefanović O**, Čomić Lj, Trifunović S. (2012) From Synthesis to Antibacterial Activity of Some New Palladium(II) and Platinum(IV) Complexes, Chapter 15. In: Varaprasad Bobbarala (ed) Antibacterial Agents. InTech – Open Access Publisher, p. 311-333, ISBN 979-953-307-281-3

Scientific paper (list of selected papers)

1. Marina M. Stanković, Petar M. Ristivojević, Đurđa D. Ivković, Milena G. Milutinović, Jelena N. Terzić, **Olgica D. Stefanović** (2024) A comprehensive study on *Geranium robertianum* L. antibacterial potential. Journal of Applied Microbiology, 135, 1xae106

2. **Olgica D. Stefanović**, Aleksandra B. Rakonjac, Danijela D. Nikodijević, Sara D. Milojević, Anica Dinić, Snežana B. Simić (2024) Freshwater algae *Cladophora glomerata* and *Vaucheria* sp. from Serbia as sources of bioactive compounds: chemical analysis and biological activities. Archives of Biological Science, 76(2):175-189

3. Katarina Marković· Ana Kesić, Mirjana Novaković, Mirjana Grujović, Dušica Simijonović, Edina H. Avdović, Sanja Matić, Milica Paunović, Milena Milutinović, Danijela Nikodijević, **Olgica Stefanović**, Zoran Marković (2024) Biosynthesis and characterization of silver nanoparticles synthesized using extracts of *Agrimonia eupatoria* L. and *in vitro* and *in vivo* studies of potential medicinal applications. RSC Advances, 14, 4591

4. **Olgica Stefanović**, Dijana Mladenović, Katarina Mladenović, Mirjana Grujović, Dragana Ivanović (2022) *Escherichia coli* biofilm formation and control by phenolic compounds from *Salvia officinalis* L. extracts. Indian Journal of Experimental Biology, 60, 771-780

5. **Olgica Stefanović**, Filip Vukajlović, Tamara Mladenović, Dragana Predojević, Ljiljana Čomić, Snežana B. Pešić (2020) Antimicrobial activity of Indian meal moth silk, *Plodia interpunctella*. Current Science, 118 (10): 1609-1614.

6. **O. D. Stefanovic**, I. D. Radojevic, Lj. R. Comic, V. V. Jevtic, G. P. Radic, S. R. Trifunovic (2017) Antioxidant and Antimicrobial screening of some dialkyl esters of ethylenediamine-*N,N'*-di- *S,S*-(2,2'-dibenzyl) acetic acid and their platinum(IV) complexes. *Oxidation Communications*, 40(3): 1070–1080.

7. Mirjana Z. Muruzović, Katarina G. Mladenović, **Olgica D. Stefanović**, Sava M. Vasić, Ljiljana R. Čomić (2016) Extracts of *Agrimonia eupatoria* L. as sources of biologically active compounds and evaluation of their antioxidant, antimicrobial, and antibiofilm activities. *Journal of Food and Drug Analysis*, 24: 539–547.

8. **Stefanović O**, Tešić J, Čomić Lj. (2015) *Melilotus albus* and *Dorycnium herbaceum* extracts as source of phenolic compounds and their antimicrobial, antibiofilm and antioxidant potentials. *Journal of Food and Drug Analysis*, 23, 3: 417–424.

Professional activities

- Member of Superior Council of Serbian Biological Society "Stevan Jakovljević", Kragujevac, Serbia
- Member of Serbian Microbiological Society, Belgrade, Serbia

Contact

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